

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: N5EM@aol.com
Subject: [1973] 10 Meter QRP Calling Freq
Message-ID: <950723232635_39256807@aol.com>

I have read the thread with interest as I am an avid 10 meter operator. The most recent list sent via the list of calling freq's shows 28.385 as the Novice calling frequency for QRP. We need not change anybodys list. This is the one to use. I typically monitor 28.345 when in motion (I operate 10 meters almost exclusively mobile). There is always someone there trying to work 10-10 club members.

>From now on, when I hear activity on .345, I will qsy up to .385 and start making noise. My "QRP" rig currently runs 25 watts (Uniden HR-2600).
Considering the solar conditions on 10 now, that is probably QRP, but if we start to get some serious activity on 385, I will get the throttle down to 10 PEP.

10 meters is one of those bands that gets into your blood. No easy QS0s on a daily basis there. You have to be patient and wait for the sun to cooperate and you have to be there at the right time. That means, turn the radio on (has the makings of a song?), squelch on, and monitor, monitor, monitor.

Your reward is that when it opens up, QRP works like gangbusters. For the serious QRPer, who has learned the art of patient operating, 10 meters and 6 meters are naturals. I was actually somewhat disappointed when I originally learned that the QRP+ didn't go to 6 meters. (Didn't last long, and I ordered one anyway.) And, another nice thing about 10 and 6 is that when you make a QS0, its usually with someone who wants to talk to you. Not someone who really wanted to add another DXCC country and only answered you because no one else called.

So there you go. If you have not already discovered 10 meters, fire up between 28.3 and 28.5 and start calling CQ. You'll be glad you did.

72
Ed Manuel, N5EM
n5em@aol.com

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski)
Subject: [1972] Articles done/misc ramblings
Message-ID: <1995Jul23.225747.5468@abs.net>

I finally got my articles fully loaded, about 33 of them plus one by

K7YHA on RS-12 operation. They were published in the QRP Quarterly going back to late 1991. I wrote before that, but on an old TRS-80 model 4P so the files are not transportable. (They ARE retypeable, but I don't have the time or energy!) So far, all of mine are in the articles and reviews subdirectories. I'll probably post my future QRP Quarterly articles there after they appear in print. (Some of the articles included diagrams and/or schematics in print but not in the electronic versions, but they are still of value without them. I did not upload any articles in which graphics were critical to enjoyment and understanding.)

Misc ramblings--

Re the daily digest--it's really great! Not only does it tremendously reduce the clutter in the mailbox, and tremendously reduce the amount of time I spend on line (download a digest at full speed, then read off line at my leisure), it has another benefit: seeing a technical question or error I'd like to address, then seeing it resolved later in that or the following digest, saving me the time and trouble of doing all the research and composing a reply :-)

Public apology to K5F0: Yes, I now remember quite clearly that I did in fact sell you 4 computer clock modules for 3686 KHz at my cost of 25 cents at Dayton; I originally thought I had bought the entire batch of 8 for 28.322, but it's all coming back now. And remember what I said in a posting a while ago about the ones for the higher freqs having cruddy sine waves instead of square waves? That's probably wrong too; I think there's a metrology limitation here. While I was using a good quality 100 MHz scope with a 100 MHz probe, that's not good enough for looking critically at a 28 MHz signal (ref oscilloscope article by QRP'er Denton Bramwell, K7OWJ, in Ham Radio in their last year of publication).

When I get a chance, I'm going to look at that oscillator waveform again with the Tektronix sampling scope at work--the time base goes down into the double digit PICOseconds per division, and I'm told the input section has a frequency response into the GHz region. (No scope probes to limit the response, either--it's a 50 ohm coax system with SMA connector.)

And for those attenuators you were planning to build, you could get better accuracy by going to 1% resistors. The available 1% values come closer to the actual values required than do other resistors, making the actual attenuation and input impedance closer to the precise value, and less worry about how the succeeding and preceding sections are affected by the actual impedance. Those are cheap enough--DigiKey has them available by a company called Yageo, wire leads, 1/4 watt. You have to order them in quantities of 5, but it's

only 54 cents for 5.

You can find the actual values for attenuator resistors in the ARRL Electronics Data Book, page 5-2. I don't know if the recent "hamcalc" program does attenuators, and I haven't tried doing attenuators yet with the software that comes with Haywards Intro to RF Design book, but RFT00LBOX does them well. It's a freeware program put out by Teledyne Microelectronics, copyrighted but widespread copying is specifically encouraged. I'll upload it to the QRP archives at ftp.lehigh.edu soon; the ZIP version is about 92K. I'm not sure how it compares, overall, to the Hayward software or hamcalc, but it's another good tool (no pun intended) to have around.

In the attenuator section, you input the value you want and the impedance, and it calculates the resistor values for exact, 1%, 5% or 10% resistors. It also returns the actual input and output impedance seen, as well as actual attenuation. Pretty handy.

73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ abs.net

E-Mail: Mike.Czuhajewski@bbs.abs.net

The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA

Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995

From: geoffs@onr.com (Geoff Schecht)

Subject: [1974] Ceramic Filters from the Dead

Message-ID: <199507240329.WAA17859@Sierra.onr.com>

I've been on a ceramic filter kick ever (as probably everyone knows me for) since I got my ICOM R70 a while back and began a hunt for these rather hard-to-get little widgets.

I got my MuRata and NTK catalogs in a few weeks ago and their arrival couldn't have been more timely.

Someone mentioned that CB radios were a good source of scroungeable ceramic filters. Whoever that was, thanks for the idea.

While at my favorite scrap yard on Friday (one of the few that'll let scroungers in to dig and recover anything at 15 cents a pound), I discovered a couple of trashed radios; an old CB and an old FM scanner. Both had ceramic filters in them. The CB was an old 23 channel unit (AM only) but it had a better quality filter in it than's in a QRP rig I currently have. The FM scanner had a surprisingly good

quality MuRata filter that's, alas, too wide for sideband use but is probably better than some of the ones in current VHF/UHF ham rigs.

For various reasons, a lot of scrap radios and electronic gear shows up at this yard and I'll bet that some 40 Ch. SSB CB junkers will show up eventually. Anybody know what those things typically use in the sideband generator sections (filters or phasing-type SSB generators?)? SSB filters tend to have around 2.7kHz or narrower passbands and they are required to have decent shape factors and ultimate rejection specs. I can bust the PC boards up at the yard and get the goodies for essentially nothing.

There was a stack of old Motrac radios out there, too. I found some even older tube-type VHF radios that had some nice-looking Xtal filters in them but they were wide (15kHz). There were a *ton* of tubes left in the equipment, too.

I'm going back tomorrow for another look. Except for the filth, stench, noise, 100 degree heat, sharp metal hazards and crane booms swinging constantly overhead; it's a great place to play.

Geoff NQ7A Austin, TX

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: Bill Acito 24-Jul-1995 0902 <acito@asdg.enet.dec.com>
Subject: [1978] Index Labs, Mikes... an apology
Message-ID: <9507241302.AA23106@us1rmc.bb.dec.com>

Far be it from me to not apologize when I've stepped in it...

I dug up my Index invoice last night. I'd paid by card, so it indeed shows the rig at \$510, shipping, and the line "mike backordered". I think I just took a quick look at it when it arrived, and assumed I was charged for the mike as well, which I was clearly not.

Any delay in getting my mike is my fault, and not Index's. Consider this an open apology to them.

b

. - I own my own words -

Bill Acito
acito@asdg.enet.dec.com

|d|i|g|i|t|a|l|
Digital Equipment Corporation
Digital Semiconductor - Fab 6
Hudson, MA

kc1gs
(qrp-ne #260, norcal #1147, arrl life)

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: JessQRP@aol.com
Subject: [1971] It's alive!! It's alive!!
Message-ID: <950723222614_121348494@aol.com>

How about that....

First, before the details, I must congratulate Dave Benson on an excellent design. Way to go Dave!

The SW 30 is back on line again. I won't go in to all the gorey post mortem details, but the bottom line is that the only real damage was the zener that protects the output final and a few pieces of wire. Alos had to clean up the traces around the zener as they got cooked pretty well. The new zener is 33v 1 watt as that is all I could scrounge up locally and it will be changed to 5 watt or smaller soon. I have also added a coaxial power plug, internal fuse holder and changed the RCA plug for the keyline to a mini phono like the rest of my radios. I also installed a mini toggle switch as an on/off switch on the front panel. This radio is getting crowded on both the inside and outside of the box. As Dave says, it's real cozy..

I will be putting something on the list soon as I can get to it on the rockloop. I have saved all of the requests that I have gotten for information and if anyone is in a super hurry, I would be happy to fax or mail a copy of the original article less the intended take down frame and such that I am planning for it.

As for the power output on the SW 30, it is still barely 1 watt on 13.8. And that is where it is going to stay for a while. The radio is working, and after all I have been through getting it on the air to stay, I don't think I will be fussing with it for a while. Will make a few contacts first before messing further.

Any regrets on my part with this radio, NOT AT ALL!! Good design and great bargain, and with the support and parts available from Dave, how can you go wrong? Have I learned a few things and remembered a few things that I forgot

from the bygone days when I used to make a living from soldering and such?
You bet!!

Just thought you all would like to know.....

Best
Jess

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1968] Jim Cates
Message-ID: <199507240149.UAA21955@chuck.dallas.sgi.com>

I too second the notion that Jim Cates is a good individual
and I hate to see someone take a pot shot at him without his
being able to respond.

There is no reason to take pot shots at people on this list.
Do it offline. It serves no purpose whatsoever other than
to piss people off.

We've operated over two years with very little problems, let's
not start now.

dit dit es off soap box

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: frank@yorks.demon.co.uk (Frank, G3YCC)
Subject: [1983] Need a cheap rig?
Message-ID: <5774@yorks.demon.co.uk>

Now that heading got you interested, yeh? Well, here's how I got an all band
ssb/cw/fm transceiver for a song.

A local dealer rang me to say he had a faulty FT747GX. Apparently, it suffered
from a PA stage which took off. This, I hear is a common problem with this rig.
If you don't know the 747, the PA is in it's own diecast box, complete with
output filters etc. So, I could either loose the whole die cast box and replace
it with another amp., or leave the existing amp strip in situ, disable the final
amp and take the output from the driver. This latter I did and took RF via
a couple of turns from the driver stage's toroid and hey presto 3 to 5 watts
out on ALL BANDS. Neat eh?

So for a fraction of the second hand price I get an all band transceiver, which runs ssb/cw/am/fm AND general purpose Rx.

No, I don't have any more of these rigs, but it's an example of what can be done...

Have fun and 72/73.

--

Frank G3YCC (G QRP 042)

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995

From: Jeff Gold <JMG@tntech.edu>

Subject: [1979] New kits

Message-ID: <01HT8RQKB07M96VZ08@tntech.edu>

Does anyone know if the new Oak Hills 4 bander is being shipped, or the new S&S 80 meter kit?

73

Jeff, AC4HF

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995

From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>

Subject: [1965] NorCal list

Message-ID: <5542EC7D31@iunhaw1.iun.indiana.edu>

I was glad to see the latest NorCal list on this listing. Now I know why I never get the club blurb---My name is not there. I have a cancelled check made out to Jim Cates for membership purposes. I assume that went for a case of beer and that was the end of that!!! I have sent numerous Emails to them and snailmails to them but have never had the courtesy of a reply. They got my money and can now run with it.

At least the NW Club in Washington sends a membership certificate and some other stuff when they get your check.

72 de Tim WB9NLZ

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995

From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)

Subject: [1981] North Am. QSO Party @ VE2-LAND

Message-ID: <199507241604.MAA08412@dartvax.dartmouth.edu>

Hello All!

It won't be long now! I will be in Quebec,(PQ), in another 9 days.
This is a combination vacation/ QRP trip.(My wife thinks it's a
vacation, but got suspicious when most of my planning and baggage
was radio related).

I noticed that the North American QSO Party will be taking place
on August 4th, starting at 18:00 utc. With the permission of the
good folks at the "Hotel de la Plage", I will be set up with portable
QRP station overlooking le Fleuve St.Laurent. The river is about 15
miles wide there and whales belugas can be seen from shore.

Antennas on hand will be a 135ft. vertical, with radials for 40m
on down, held up via a Hargraves box kite, an assortment of dipoles
for 20 and 40m. , and an Outbacker vertical which covers all bands
from 75 to 10m.

I will be on 40m to start and 15 if it's open, then certainly 20m
if 15 doesn't open. Look for me around the QRP calling frequencies.
I'll sign VE2/AA1IK.

The exchange is your name and location, cool huh!

I won't be sending in a log,I'm just doing it for fun.
But!!!!

I will be taking some pictures of the kite and me operating, with various
local scenery in the back ground for a new QSL card
which I will send to all contacts from VE2/.

I always wanted a color picture QSL card anyway, so this will
be a good excuse to do it.

de AA1IK	(Lead by example, It is much easier)
	(to pull a string than it is to push it.)
Ernie Gregoire	()
Canaan, NH.	()
	(_____)

e-mail : GREGOIRE@VALLEY.NET
packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1969] ONE more time
Message-ID: <199507240152.UAA21962@chuck.dallas.sgi.com>

Ooops. Back on soap box.

Did you send and include a #10 (business sized envelope) with stamp on it? Remember these people are handling a lot and I mean a lot of mail and they will not and should not be asked to spend hundreds of dollars of their own money for something that should be common courtesy.

I've done it myself many a time whereby I put up the postage just to keep or try to keep people happy.

OK, now I'm off.

dit dit

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: nwqrp@scn.org (SCN User)
Subject: [1966] qrp+ mic
Message-ID: <199507240038.RAA19213@scn.org>

Hello QRP folks,

Have had alot of fun today finishing my qrp+ mic project. (I started it just bfore FD <hi>.) This mic is made from the Radio Shack "PC MOUNT" electret mic, an old shoe, and a dental floss container (empty).

The shoe is used for a chunk of rubber off the sole. The mic is placed in a hole in the rubber chunk. The rubber chunk is glued inside of the floss container.

I cut a slit in the floss container and mounted a switch from the junkbox there. I took the long skinny part from a pen cap and cut it to fit onto the switch to for the part you click with your hand. (I used glue to secure everything). I wired it all to a mic chord and closed the top of the floss container. Cute. As a final touch, I cut the

velcro from the old shoe and put the matching (hooks) side onto the shelf above the QRP+. First contact with Floss Mic was Hank, N7GGC, in Kirkland, WA. He said that this mic sounded almost as good as the converted Icom Speaker/Mic I borrowed from my IC 2AT and rewired the week of FD.

Hope this helped relived some of the Mic backorder woes of the group purchasers!

--Brian, KV9X

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--
      i                      NorthWest QRP Club
-=[scn]=--                  nwqrp@scn.org
      )|(                      / ^ \ ^ \ / ^ ^ \
      / _ | _ \  http://www.scn.org/scripts/menus/n/nwqrp/nwqrp.menu  --NW QRP--
```

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: N5EM@aol.com
Subject: [1975] QRP+ Mic \$\$\$ - The answer
Message-ID: <950723235557_121409311@aol.com>

>From the N5EM QRP Archives (some people are info packratts):

Subject: Final QRP+ Info
Author: owner-qrp-1@netcom.com at SMTPGATE
From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: nwqrp@scn.org (SCN User)
Subject: [1984] QRP+ Mic wiring
Message-ID: <199507241713.KAA22295@scn.org>

tpettibo@NMSU.Edu ("Timothy J. Pettibone")

Tim,

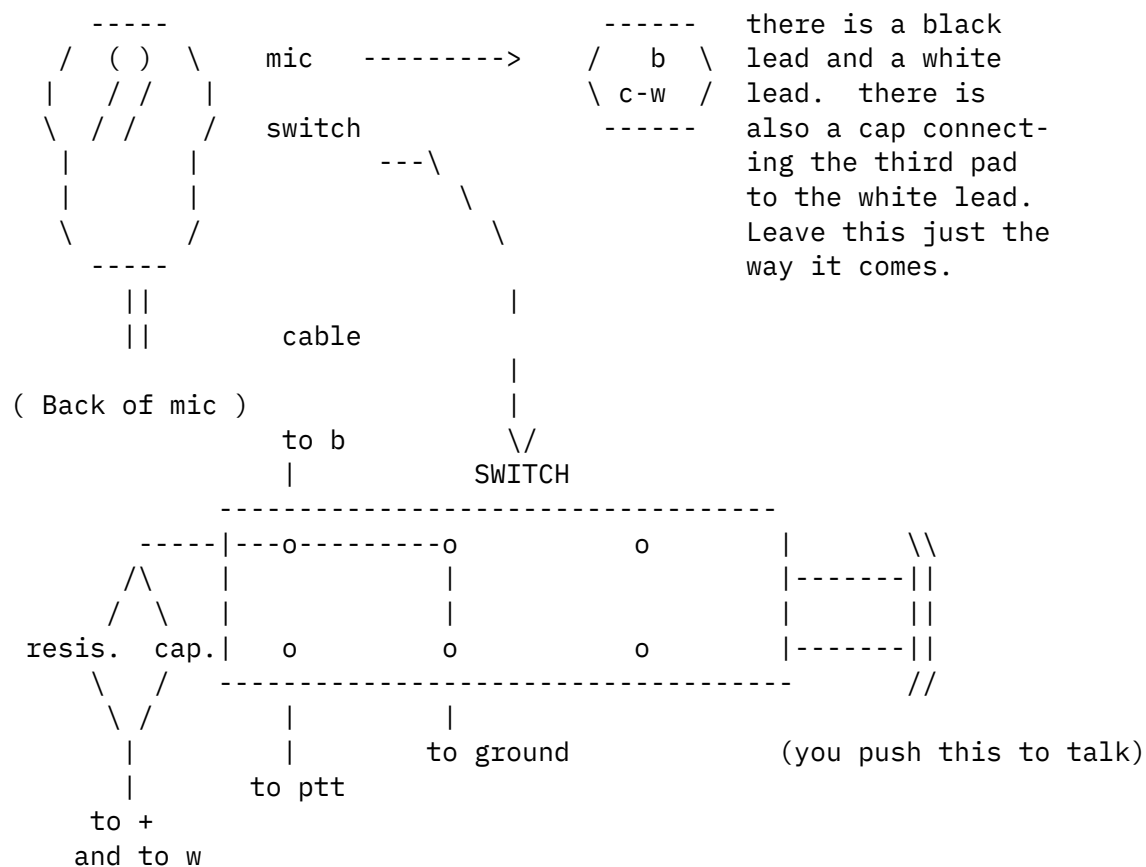
Well, which kind of electret mic do you have? The 3 conductor or the 2 conductor variety. Radio shack labels the 2 cond. as "PCB mount", but the the 3 cond. is "Replacement Condensor Mi. Ele.". You will have the easiest time with the 2 cond. type. Just hook the + lead to the middle conductor of the plug as per the instruction manual of qrp+. the - goes to the sheild cond. The end cond. is ptt:

]]]]]]]=== == 0

- + ptt

The 3 cond. is a bit trickier:

I used the one in the icom ht mic for the 2AT. I rewired the ptt switch and disconnected the speaker of the speaker/mic.



the resistor is a orange white orange (silver) (39k ohm)

the cap. is a disk ceramic "102 Z" (1000 pF)

Both mics work great!

--Brian, KV9X qrp+ 641

--

i NorthWest QRP Club
 -=[scn]=
)|(nwqrp@scn.org
 /_/_\ http://www.scn.org/scripts/menus/n/nwqrp/nwqrp.menu
 --0---/\--
 /^\^\^\ ^^\
 --NW QRP--

From qrp-l@lehigh.edu Mon Jul 24 19:08:00 1995
From: bobhigh@primenet.com (Bob Hightower)
Subject: [1986] QRP+ mics
Message-ID: <199507241754.KAA16288@mailhost.primenet.com>

I spoke with Index this morning, and he (Bruce) is sending a list of names of those who prepaid for the mics to the supplier, who will ship direct. Should be about a week-10 days.

Bob KI7MN NorCal 1228

From qrp-l@lehigh.edu Mon Jul 24 19:08:00 1995
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [1982] QRP-L server and list address
Message-ID: <95Jul24.120523edt.14522-3+40@hooch.CC.Lehigh.EDU>

Gang,

Mail forwarding from netcom.com (and think.com) will soon go away, so if you're using mail aliases or some such please make sure they're pointing to:

listserv@Lehigh.EDU for list server commands
qrp-l@Lehigh.EDU for posts to the QRP-L mailing list

/jim

From qrp-l@lehigh.edu Mon Jul 24 19:08:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [1985] S&S email
Message-ID: <01HT8XWXQV1E96W3CP@tntech.edu>

Anyone know S&S email address.

73

Jeff, AC4HF

From qrp-l@lehigh.edu Mon Jul 24 19:08:00 1995

From: frank@yorks.demon.co.uk (Frank, G3YCC)
Subject: [1987] Re: 1/2 wave ant
Message-ID: <5818@yorks.demon.co.uk>

Hi and thanks for the reply. This antenna was actually sold here and known as the Panther and yes it would work on any band. Perhaps the easiest way to check for best tuning is the use of a simple field strength meter and adjusting the core for maximum reading. I did wonder about making the tuned cct in a slightly larger box and incorporating a FSD in it, should work, I think...

73

--

Frank G3YCC (G QRP 042)

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: burdick@interval.com (Wayne Burdick)
Subject: [1990] Re: For N6KR...re: 160 meters
Message-ID: <199507241943.MAA27093@interval.interval.com>

>From: rarland@epix.net
>Subject: For N6KR...re: 160 meters

>I have a chance to buy a Yasue FT-301S and th epower supply for roughly
>the same amount as a Wilderness Sierra with 4 band modules. My question
>is: can the Sierra be converted to 160....

Rich, several Sierras are running on 160, including mine. The only caveat is that it is VERY narrow band on 160--only about 30 or 40kHz before the transmit power rolls off too far. The Wilderness Radio version will hopefully be a bit better in that regard, since we're going to tweak the band-pass filters.

Wilderness will not be selling a complete band module kit for 160, but you'll be able to buy a blank band module kit (PCB and hardware only) and follow the directions in the manual to put it on 160. You'll only get 2 to 3 watts, though, so the Sierra is not a 160m contest rig. :)

I wouldn't compare the Sierra to the FT301S or other big station rigs in any case, because the intent of the Sierra is entirely different: ultra-low-current drain, ultra-small-size, multiband portable. If you want high performance or high power and don't care about size or battery life, go with the FT301S.

73,

Wayne

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: "N100Q Tom R. @ MR01 24-Jul-1995 1019" <randolph@improv.enet.dec.com>
Subject: [1980] re: Multi-band transceiver
Message-ID: <9507241451.AA01257@us4rmc.pko.dec.com>

> After building what seems like a gazillion single-band QRP rigs, I want to
> try my hand at a multi-bander. However, finding a decent design is harder
> than busting a QRO pile-up on 80 meters.

In the back of "Solid State Design" there is a "Contest Grade" CW receiver project by W7Z0I and <somebody> that might work: multiband, designed for high dynamic range, digital readout. As I recall, he tapped the VFO to drive a separate transmitter "exciter".

Also, in "QRP Classics" is a reprint of a 4(?) part QST article (you know, the kind they don't print anymore cuz they put 'em in QEX) by W1FB called "His Eminence, the Receiver", in which he builds a high performance 160m RX. In later articles, W7Z0I builds high performance matching converters for the rest of the bands.

I realize these aren't transceivers, but by tapping the oscillators, and adding some broadband amps and some low-pass filters, you could have it all, with a great RX, too.

Re: general QRP comments by Jess...

Reading your post, I realized there's a real plus to building and maintaining your own QRP equipment for us computer jockeys. I know my analog electronics skills had gone down the tubes since school daze... too many 1s and 0s, not enough sine waves. That's what happens when your job is too specialized! QRP has got me back up and crunching... in fact, there's things I understand now that I never quite picked up in school!

So there you go... QRP turns a bit basher into a well-rounded electronics dude.

-Tom R. N100Q randolph@est.enet.dec.com

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: "David D. Meacham" <ddm@datatamers.com>

Subject: [1967] Re: NorCal list

Message-ID: <Pine.LNX.3.91.950723182001.8317D-100000@dt1.datatamers.com>

Tim,

I don't know what the problem can be, but I assure you that Jim Cates is a very ethical man. I know him pretty well. I suggest you write to him, because he is NOT on the Internet. His address is:

Jim Cates, WA6GER
3241 Eastwood Road
Sacramento, CA 95821

72, Dave, W6EMD

On Sun, 23 Jul 1995, Tim Stabler wrote:

> I was glad to see the latest NorCal list on this listing. Now I know
> why I never get the club blurb---My name is not there. I have a
> cancelled check made out to Jim Cates for membership purposes. I
> assume that went for a case of beer and that was the end of that!!!
> I have sent numerous Emails to them and snailmails to them but have
> never had the courtesy of a reply. They got my money and can now run
> with it.
>
> At least the NW Club in Washington sends a membership certificate and
> some other stuff when they get your check.
>
> 72 de Tim WB9NLZ
>
>

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995

From: James Wilcox <ohjim@CyberGate.COM>

Subject: [1970] Re: Oddball Crystal values?

Message-ID: <Pine.SCO.3.91.950723192018.1952A-100000@emerald.cybergate.com>

On Sun, 23 Jul 1995, Adam O'Donnell wrote:

> Hello to all.
>
> As you may or may not know, I am working on constructing a VXO 2m
> transmitter as part of a Mode A satellite station (2m up, 10m down).

> I am having trouble finding crystals for the 2m transmitter.
> I need anything that could produce a signal around 145.8mhz.
> I could possibly use a 73mhz crystal doubled or something else along
> those lines.

Adam:

International Crystal Manufacturing (ICM) "grinds" crystals per order up
to and over 200 MHz (7th Overtone). Their address is:

I.C.M.
PO Box 26330
10 N. Lee
Oklahoma City, OK 73126-0330
(405) 236-3741

Your welcome and their catalog is FREE

73's

James B. Wilcox, WA6PTG [ohjim@cybergate.com]

>
> Thanks and 73
>
> --
> Adam O'Donnell, N3RCS
> Amsat: N3RCS@AMSAT.ORG
> Internet: ADAM@LIBERTYNET.ORG
>
> "I want to know how God created this world. I am not interested in this or
> that phenomenon. I want to know His thoughts, the rest are details."
>
> -- Albert Einstein
>

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: frank@yorks.demon.co.uk (Frank, G3YCC)
Subject: [1988] Re: Oddball Crystal values?
Message-ID: <5820@yorks.demon.co.uk>

Hi, read your mail about the 2m rig. The only crystal I have is on 72.75
Mhz. You are welcome to that if any good to you, FREE of course!!

73

--

Frank G3YCC (G QRP 042)

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: David Negaard (Oberon-) <negaard@graceland.edu>
Subject: [1977] Re: Time for an "Olga Filter"..
Message-ID: <199507241345.IAA00572@draagen.graceland.edu>

>>>> "JCoote" == JCoote <JCoote@aol.com> writes:

JCoote> I second the motion.

I _have_ an "Olga Filter." It's my left middle finger (which rests on the 'D' key). *grin*

--

o David Negaard	o negaard@graceland.edu
o Help Desk Technician	o http://www.graceland.edu/~negaard
o 700 College Avenue	o linux-phile
o Lamoni, IA 50140	o 73 de KB0PXX

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: mitchell@dtcs70.dtc.Kodak.COM (Brad Mitchel)
Subject: [1976] RE: Tuna Tin 2
Message-ID: <9507241216.AA17548@dtcs70.dtc.kodak.com>

Hello all, I have been away on vacation, but figured that I should forward this one on. To me, this is a historical account, and is good reading. Every time I hear of the tuna tin II it brings back memories.. I must be getting old!
Many thanks to Ed Hare, KA1CV for this post!!
72 Brad WB8YGG

----- Begin Included Message -----

>From ehare@arrl.org Tue Jul 18 14:55:18 1995
From: "Hare, Ed, KA1CV" <ehare@arrl.org>
Subject: RE: Tuna Tin 2
Encoding: 77 TEXT
X-Mailer: Microsoft Mail V3.0
Content-Length: 3736
X-Lines: 77

Hello, Brad,

Sorry for the delay; what with all of the travel I have had in June and July, end of quarter reports and reports for the upcoming Board meeting, I have been a busy fellow.

You may repost this to the QRP folks, if you like.

I do indeed have the original Tuna Tin II. There is a tale that goes with it, too. :-)

We had it in storage in the ARRL Lab. We were working on a Lab display area, which shows some of the projects we have done over the years. When we finally got the shelves built up, I asked Mike Gruber to find the Tuna Tin II and put it on the shelf. He came to me a bit later, crestfallen. It was gone. We searched high and low and couldn't find it anywhere. As a QRPer, I was also disappointed -- a piece of ARRL history had been lost forever.

I put it out of my mind and got on with life. Last year, I attended the ARRL New England Division Convention in Boxboro. I finally took a break and wandered through the flea market area. I walked past this booth of the junquiest junque I had ever seen and my eyes wandered down to a box full of smaller junque. Sitting there in the middle was a Tuna Tin II. I noted that it was built pretty much like the original, and thought to myself that this would be a suitable replacement for the one we had lost. The sign on the box said \$1.00, so I coughed up the buck.

I brought it back to the Lab to show Mike Gruber. As we were looking at it, I marveled how closely the builder had followed the original. The more I looked, however, the more it nagged on me that it was too close -- the unit just looked so familiar. I finally had a hunch and dragged out the May 1976 issue. Amazing -- the unit looked just like the picture. Why, even all of the resistors faced the same way, the ceramic caps were all the same size and color, the lead lengths were all the same and the transistor looked identical. It wasn't until I noted that some of the labels were a bit crooked and offset exactly the same way that I knew -- this was indeed the original Tuna Tin II that had wandered away from the ARRL Lab. I don't remember who had it, nor do I have a clue who had wandered it away from us.

All I knew is that I was so very pleased that I had managed to salvage this piece of QRP and ARRL history.

There is only one thing to do at this point. I need to refurbish it a bit (it is missing a crystal holder). When I do, I will get it back on the air.

So if you hear W1AW in the October QRP 'test, you will probably be working a piece of ARRL history. I will QSL, written on the back of an actual photo of the rig itself, all set up at W1AW. Ought to make for an interesting contest.

72 from ARRL HQ, Ed Hare, KA1CV, ARRL Laboratory Supervisor

From qrp-1@lehigh.edu Mon Jul 24 19:08:00 1995
From: Harry_Chase@smtpgw.windata.com (Harry Chase)
Subject: [1989] RE: VXO or VFO???
Message-ID: <9506248066.AA806621989@smtpgw.windata.com>

I remember that the CB'ers in the 1970's / early 80's, with the old 23 channel crystal rigs used to modify the "clarifier" in the thing to tune inbetween channels. This was usually done by adding a tunable inductor to the crystal osc. circuit. Some variations were around, using resonant LC circuits in series with the crystal, etc., but some of these could tune 2 or 3 channels down and maybe one up (up to 40 KHz) from the nominal xtal frequency. In a few cases, with the LC circuit added, you could pull it so far it would "break away" from the crystal and become a VFO -- then it zipped thru a dozen channels and drifted... With a spectrum analyzer, years later, I built up one of these circuits and watched the phase noise slowly increase as I pulled the crystal more and more. The Hz/turn of the coil was very nonlinear, suddenly getting MUCH more sensitive just before it broke away.

A variable cap or a varactor with a fixed coil will also work.

All of these circuits work a lot better with fundamental mode rocks than with overtones, and sometimes the added tuned circuit in the oscillator will force the crystal to "jump" to the 3rd overtone as you push the tuning. They are tricky because its sensitive to the type of crystal package, the quality of the caps and coils, and variations from one crystal to another, even out of the same boxful.

--A counter , a scope, or a spectrum analyzer is recommended when tuning these things the first time.

Harry
WA1VVH